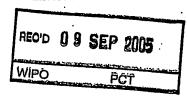
PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)
(PCT Article 36 and Rule 70)



Applicant's or agent's file reference R-63	FOR FURTHER ACTI	ON	See Form PCT/IPEA/416				
International application No.	International filing date (day	/month/year)	Priority date (day/month/ye				
PCT/JP2004/010069	08.07.2	2004	08.07.2003				
International Patent Classification (IPC) o Int.Cl. 7 F28F9/22, F25B39/		i PC					
Applicant SHOWA DENKO K.K.							
This report is the international part Authority under Article 35 and to 2. This REPORT consists of a total 3. This report is also accompanied by the second se	ansmitted to the applicant a of 3 sheets, in	cluding this cover	36.	ary Examining			
a. a total of sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications a	relating to the following ite	ms:					
Box No. I Basis of th	e report						
Box No. II Priority		·					
Box No. III Non-estab	lishment of opinion with re	gard to novelty, inve	entive step and industrial app	olicability			
Box No. IV Lack of un	ity of invention						
Box No. V Reasoned scitations a	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain do	cuments cited						
Box No. VII Certain de	Box No. VII Certain defects in the international application						
Box No. VIII Certain ob	servations on the internation	onal application	<u></u> :				
Date of submission of the demand Date of completion of this report							
24.01.2005		26.08.2005					
Name and mailing address of the IPEA/	Authorized officer		3L 8610				
Japan Patent Office		YOICHI NAGASAKI					
3-4-3. Kasumigaseki, Chiyoda-ku, Tokyo 100-8915. Japan		Telephone No. +81-3-3581, 1101 Fyt 3337					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/010069

Box No. I	Basis of the report						
otherwise	With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.						
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	This report is based on translations from the original language into the following language						
,	which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b))						
٦	publication of the international application (under Rule 12.4)						
Г	international preliminary examination (under Rules 55.2 and/or 55.3)						
_ ====							
	ard to the elements of the international applic						
	l to the receiving Office in response to an invitat not annexed to this report):	ion under Article 14 are rejerred to in th	is report as "originally filed"				
	international application as originally filed/fur	mished					
_	description:						
	-						
page	······································		as originally filed/furnished				
pag pag	ec‡	received by this Authority on					
		received by this Authority on					
	claims:						
pag			as originally filed/furnished				
pag			ny statement) under Article 19				
pag		received by this Authority on					
pag 		received by this Authority on	·				
the	drawings:						
pag	ges		as originally filed/furnished				
pag	ges [‡]	received by this Authority on					
pag	es*	received by this Authority on					
☐ as	equence listing and/or any related table(s) - se	e Supplemental Box Relating to Sequer	nce Listing.				
3. ┌ The	The amendments have resulted in the cancellation of:						
Г	the description, pages						
	the claims, Nos.		•				
	the drawings . sheets/figs						
, F	the drawings, sheets/figs the sequence listing (specify):						
Г	any table(s) related to sequence listing (specify):						
4. Thi	nd listed below had not been ted in the Supplemental Box						
Γ	the description, pages						
Г	the claims, Nos.						
Г	the drawings, sheets/figs						
Г	the sequence listing (specify):						
Г	any table(s) related to sequence listing (sp	ecify):					
* If itom A a	pplies, some or all of those sheets may be market	· · · · · · · · · · · · · · · · · · ·	<u> </u>				
-y ++=111 7 U	pp, some of the species may be market	a supersencu	•				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2004/010069

Box No. V Reasoned statement under Article citations and explanations support			35(2) with regard to novelty, inventive s ing such statement	tep or industrial applicability;	
.1.	Statement	t			
	Nov	elty (N)	Claims		YES
			Claims	1-31	NO
	Inve	ntive step (IS)	Claims		YES
			Claims	1-31	NO
	Indu	strial applicability (IA)	Claims	1-31	YES
			Claims		NO

- 2. Citations and explanations(Rule 70.7)
- 1) The following documents have been considered for the purpose of this report:
- D1: JP 2003-75024 A (SHOWA DENKO K.K.)2003.03.12
- 2) The subject matter of claim 1-31 does not appear to be novel and does not involve an inventive step.
- D1 discloses a heat exchanger comprising a refrigerant inlet-outlet tank 10, and a refrigerant turn tank 50 arranged as spaced apart from each other.

The refrigerant turn tank 50 being provided with a uniformalizing member 71, which has refrigerant passing holes.

The refrigerant inlet-outlet tank 10 provided with a divided resistance plate 40, 42, which has refrigerant passing holes.